


## Profile of Dr Avinash Chandra Rathore

	<b>Name:</b> Dr Avinash Chandra Rathore
	<b>Designation:</b> Pr. Scientist (Horticulture-Fruit Science)
	<b>Date of Birth:</b> 01.08.1969
	<b>Area of Specialization:</b> Conservation Horticulture, fruit vegetable / flower crops /ornamental plants based alternate land uses for the conservation of natural resources and optimizing the productivity and rehabilitation of degraded lands of North-Western Himalayan regions of India.
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### Detail Profile

#### Education

Degree	Year of Passing	University/Institution
Ph.D. (Horticulture)	2003	Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh
M.Sc. (Horticulture)	1995	Chandra Sekhar Azad University of Agriculture and Technology, Kanpur, Uttar Pradesh
B.Sc. (Ag.)	1992	Acharya Narendra Dev University of Agriculture and Technology, Kumarganj, Ayodhya, Uttar Pradesh

#### Professional History

Position	Year	Organization
Pr. Scientist	28.12.2015 to till date	ICAR- Indian Institute of Soil & Water Conservation, Dehradun
Sr. Scientist	28.12.2009 to 27.12.2015	ICAR- Indian Institute of Soil & Water Conservation, Dehradun
Scientist (Sr. scale)	28.12.2004 to 27.12.2009	ICAR- Indian Institute of Soil & Water Conservation, Dehradun
Scientist	28.12.1999 to 27.12.2004	ICAR- Indian Institute of Soil & Water Conservation, Dehradun
Scientist (Trainee)	15.12.2000 to 31.03.2001	ICAR-NAARM, Hyderabad

#### Publications (summary)

S. No.	Publication	Number
1	Research Publications	35
	National	25
	International	10
2	Books	
	Authored	3
	Edited	1
3	Book Chapters	5

4	Lead Papers	0
5	Radio / T.V. talks	8
6	Technical/Research Reports/ Compilation / Bulletins	6
7	Extension Folders/leaf lets	5
8	Symposia/Workshop/Seminar Papers	15
9	Popular article	12
10	Professional Trainings attended	4
11	Consultancy project handled (Leader in 0 & Associated in 0)	0
12	No. of training organized	3
	Short duration sponsored training (Trained : 0)	3
	Soil Conservation Regular Training Course: (5 ½ or 4 months duration) (Trained: 0)	0
	B. Tech students Field Practical training- one to two months (No Students: 0)	0
13	Seminars/Symposia/Workshops/Summer or Winter School/ Organized	0
14	External projects handled	4

### Most important 5 Publications

- Rathore, A.C.**, Mehta, H., Jayaprakash, J., Charan Singh, Gupta, A.K., Pawan Kumar, Sadikul Islam, Kar, S.K., Sridhar Patra, Lekh Chand, Doharey, V.K., Ojasvi, P.R., Yadav, R.K. and M. Madhu (2021) Modified plant architecture integrated with liquid fertilizers improves fruit productivity and quality of tomato in North West Himalaya, India. *Scientific Reports*; 11(1):18664. <https://doi.org/10.1038/s41598-021-98209-z>
- Rathore, A.C.**, Mehta, H., Islam, S., Saroj, P.L., Sharma, N.K., Gupta, A.K., Jayaprakash, J., Dubey, R.K., Ghosh, B.N., Prasad, R., Kumar, D. and A. Raizada (2021). Biomass, carbon stocks estimation and predictive modelling in mango based land use on degraded lands in Indian Sub-Himalayas. *Agroforestry Systems*; 95 (8): 1563-1575. <https://doi/10.1007/s10457-021-00660-4>
- Rathore, A.C.**, Mehta, H; Sharma, N.K., Gupta, A.K., Alam, N.M., Islam, S., Dogra, P. (2020). Performance of litchi (*Litchi chinensis* Sonn.) based agri-horticultural land uses in rainfed condition on degraded lands in North Western Himalayas, India. *Agroforestry Systems*; 94:6 (2225–2236). <https://doi/10.1007/s10457-020-00544-z>
- Rathore, A.C.**, Kumar, A., Tomar, J. M. S., Jayaprakash, J., Mehta, H., Kaushal, R., Alam, N.M., Gupta, A.K., Raizada, A and Chaturvedi, O.P. (2018). Predictive models for biomass and carbon stock estimation in *Psidium guajava* on bouldery riverbed lands in North-Western Himalayas, India. *Agroforestry Systems*; 92(1):171-182. <https://doi/10.1007/s10457-016-0023-z>
- Rathore, A.C.**, Saroj, P.L., Lal, H., Sharma, N.K., Jayaprakash, J., Chaturvedi, O.P., Raizada, A., Tomar, J.M.S. and P. Dogra (2013). Performance of mango based agri-horticultural models under rainfed situation of North Western Himalaya, India. *Agroforestry Systems*; 39(1): 63-66. <https://doi/10.1007/s10457-013-9646-5>

[Google Scholar link](#)

<https://scholar.google.co.in/citations?user=U2P2sHwAAAAJ&hl=en>

### **ResearchGate link**

<https://www.researchgate.net/profile/Avinash-Rathore>

### **Awards/Fellowships/Recognitions:Nil**

### **Research Projects as PI (On-going)**

1. Performance of subtropical fruit species under different microbial amendment on degraded lands (Institute Funded)
2. Assessment and improvement of nutritional quality of horticultural crops on sloping land in North Western Himalayas (Institute funded)

### **Research Projects as PI (Concluded)**

#### **(A). Institute / ICAR funded Projects implemented as Principal Investigator (PI)**

1. Improving Kinnow mandarin productivity through micro-irrigation and mulching in degraded riverbed (1999-2005)
2. Studies on peach based agri-horticultural practices under varying soil gravelliness of Riverbed lands in Doon Valley (1999-2008)
3. Evaluation of Mango and Litchi Based Agri-Horti Systems on Degraded Lands in Doon Valley (1999-2010)
4. Productivity enhancement in fruit-flower based two-tier horticulture system through integrated nutrient management and mulching (2008-2016)
5. Enhancement of guava based agri-horti system through canopy management and mulching in rainfed bouldery riverbed lands (2008-2016)
6. Evaluation of rooting media and rootstock of major subtropical fruits spp. for raising quality planting materials on Degraded lands (2017-2021)
7. Establishment of model nursery for production of planting material through vegetative multiplication of guava, aonla, litchi, pomegranate and mango under state horticulture mission HMNEH / NHB, GOUK (2015-2020).

### **Other important responsibility**

1. Faculty member (Horticulture / Agroforestry) for different training programmes (Officers, short course, etc).
2. Editor, Indian Journal of Soil Conservation, IASWC, Dehradun
3. Expert member of State Level Committee for Fruit Nursery Accreditation and Rating as well as screening of horticultural projects of Uttarakhand state framed by National Horticulture Board, Dehradun, Uttarakhand, India

### **Consultancies**

-Nil